# FY10 Senator Wicker Requests

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| Item Name: | 45' Technology Demonstrator |
| Request: | $2,600,000 |
| Suggested Recipient: | Seeman Composites, Inc |
| Suggested Location of Performance: | Gulfport, MS |
| Purpose/Project Description: | To continue the development of an advanced composite 45' combatant craft specifically designed to close identified capability gaps in Naval Special Warfare missions. |

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| Item Name: | ACES 5 Ejection Seat |
| Request: | $7,000,000 |
| Suggested Recipient: | Goodrich Corporation with Pioneer Aerospace |
| Suggested Location of Performance: | Columbia, MS |
| Purpose/Project Description: | These funds will complete testing necessary to provide the USAF the ACES 5 ejection seat - modular and improved version of ACES ejection seat - common seat found on almost every USAF combat aircraft. ACES 5 includes improved parachute to keep pilots safer |

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| Item Name: | Advanced Integrated Microsystems for Enabling Revolutionary Military Electronic Systems |
| Request: | $5,000,000 |
| Suggested Recipient: | Camgian Microsystems Corporation |
| Suggested Location of Performance: | Starkville, MS |
| Purpose/Project Description: | The program will support the development of new, microelectronics technologies that will enable significant improvements in the size, weight and power consumption of existing military electronic sensing and communications systems. |

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| Item Name: | Advanced Materials Design for Nano Devices |
| Request: | $2,230,000 |
| Suggested Recipient: | Mississippi State University |
| Suggested Location of Performance: | Starkville, MS |
| Purpose/Project Description: | MSU proposes to develop unique/innovative materials, magnetic memory elements for high-density nanoscale memory devices, nanosensors for chemical warfare agents in support of ARL Nano Electronics Team Sensor/Electron Devices Directorate. |

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| Item Name: | Advanced Portable Power Systems Technologies |
| Request: | $4,800,000 |
| Suggested Recipient: | Ultralife |
| Suggested Location of Performance: | West Point, MS |
| Purpose/Project Description: | Developing a hybrid battery fuel cell power source reduces a soldier's battery burden. As the incremental weight of batteries continues to grow, mission effectiveness decreases. These systems will enable lighter power supplies and longer mission times. |

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| Item Name: | Advanced, Long Endurance Unattended Ground Sensor Technologies |
| Request: | $8,000,000 |
| Suggested Recipient: | Mississippi State University |
| Suggested Location of Performance: | Starkville, MS |
| Purpose/Project Description: | MSU proposes to conduct R&D of advanced, low power unattended ground sensor technologies that will provide the special operations warfighter with total, reliable and up-to-the minute situational awareness. |

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| Item Name: | Aircraft Active Corrosion Protection Compounds |
| Request: | $2,000,000 |
| Suggested Recipient: | Rite-Kem Incorporated |
| Suggested Location of Performance: | Tupelo, MS |
| Purpose/Project Description: | Rite-Kem and MSU are commercializing novel compounds into a product which will provide for the first time active corrosion protection and help address the upwards of $20B corrosion cost to the DoD. |

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| Item Name: | Aircraft Carrier Composite Topside Structure with Integrated Ballistic Protection |
| Request: | $6,500,000 |
| Suggested Recipient: | Alion Science & Technology |
| Suggested Location of Performance: | Pascagoula, MS |
| Purpose/Project Description: | This effort will develop and validate full-scale composite aircraft carrier topside structure, providing a lightweight fragmentation/structural/fire integrated technology solution that can meet/exceed current performance requirements while reducing cost. |

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| Item Name: | ANG/USAF F-16 Center Pedestal Color Display/Active Electronically Scanned Array (AESA) Radar (Priority 4 of 6) |
| Request: | $4,700,000 |
| Suggested Recipient: | Raytheon Company |
| Suggested Location of Performance: | Forest, MS |
| Purpose/Project Description: | Integrates Raytheon-developed AESA radar with Center Pedestal Display for F-16 |

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| Item Name: | Army Center of Excellence in Acoustics |
| Request: | $4,200,000 |
| Suggested Recipient: | University of Mississippi - National Center for Physical Acoustics |
| Suggested Location of Performance: | University, MS |
| Purpose/Project Description: | This research utilizes physics principles to determine not only the direction to a weapon firing but also the distance. This cutting edge technology is being transitioned into combat theatre in cooperation with the Army laboratory at Picatinny Arsenal. |

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| Item Name: | Arrow Weapons System |
| Request: | $46,000,000 |
| Suggested Recipient: | ATK |
| Suggested Location of Performance: | Luka, MS |
| Purpose/Project Description: | The Arrow anti-tactical ballistic missile program is the centerpiece of the U.S.-Israel cooperative defense relationship, and provides the U.S. with key research and technology for other theater missile defense programs. |

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| Item Name: | Blast and Impact Resistant Composite Structures for Navy Ships |
| Request: | $3,000,000 |
| Suggested Recipient: | University of Mississippi - Departments of Civil and Mechanical Engineering |
| Suggested Location of Performance: | University, MS |
| Purpose/Project Description: | Modeling, analysis, fabrication and testing of blast/shock/impact resistant composite structures for the new generation of navy ships to achieve better mobility, survivability, stealth, safety, and lower cost. |

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| Item Name: | CACV Demonstrator |
| Request: | $10,500,000 |
| Suggested Recipient: | Northrop Grumman Shipbuilding |
| Suggested Location of Performance: | Pascagoula, MS |
| Purpose/Project Description: | To meet increased carrying requirements, the SSC (LCAC replacement) must be lighter. Current designs assume heavier materials. This project will prove the technology readiness level of composites, thus allowing use of this lighter material. |

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| Item Name: | Center for Intelligence and Security Studies |
| Request: | $2,447,729 |
| Suggested Recipient: | University of Mississippi - Center for Intelligence and Security Studies |
| Suggested Location of Performance: | University, MS |
| Purpose/Project Description: | This program will improve the capability and quality of future intellignece analyists. In addition to providing instruction in analysis and reporting, it will arrange internships in the Intelligence Community and facilitate security clearances. |

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| Item Name: | Chemical Materials and Environmental Modeling Project |
| Request: | $3,500,000 |
| Suggested Recipient: | Jackson State University |
| Suggested Location of Performance: | Jackson, MS |
| Purpose/Project Description: | This effort addresses biodegradation of structurally varying nerve agents and related compounds and provides guidance for general rules governing these processes to better understand the mechanism of action for certain enzymes involved. |

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| Item Name: | Composite Mast for CVNs |
| Request: | $3,400,000 |
| Suggested Recipient: | Northrop Grumman Shipbuilding |
| Suggested Location of Performance: | Pascagoula, MS |
| Purpose/Project Description: | CVNs have a service life requirement of 50+ years. To achieve this requirement, weight savings, especially high on the ship, is critical. A 10 ton composite mast can save up to 56 tons in the bowels of a ship. |

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| Item Name: | Composite Materials Enhancements through Polymer Science Research and Development |
| Request: | $8,000,000 |
| Suggested Recipient: | The University of Southern Mississippi |
| Suggested Location of Performance: | Hattiesburg, MS |
| Purpose/Project Description: | Provide critical research for composite matrix materials specific to the Navy's needs. Advance the utility of polymeric materials for U.S. Navy composites. |

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| Item Name: | Conducting Polymer Stress and Polymer Damage Sensors for Composites |
| Request: | $7,000,000 |
| Suggested Recipient: | Crosslink |
| Suggested Location of Performance: | Hattiesburg, MS |
| Purpose/Project Description: | Crosslink and the University of Southern Mississippi have developed the technology for realtime structural health monitoring systems to prevent catastrophic failure in composites that are increasingly being used in military aircraft. |

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| Item Name: | Cooperative International Neuromuscular Research Group (CINRG) |
| Request: | $5,000,000 |
| Suggested Recipient: | Children's National Medical Center |
| Suggested Location of Performance: | Washington, DC |
| Purpose/Project Description: | CINRG is the largest clinical trials network in the world for pediatric neuromuscular disease. Its primary goal is to provide a continuum of well-designed clinical trials for the study of muscle function research. |

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| Item Name: | Corrosion Control, Prevention and Prediction through Polymer R&D |
| Request: | $14,000,000 |
| Suggested Recipient: | The University of Southern Mississippi |
| Suggested Location of Performance: | Hattiesburg, MS |
| Purpose/Project Description: | DoD initiated a pilot program between 4 universities focused on understanding and reducing the premature failure of military assets via corrosion. Critical are understanding and mitigation of corrosion in combination with predictive models and testing. |

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| Item Name: | DDG-51 Hybrid Drive System |
| Request: | $9,000,000 |
| Suggested Recipient: | General Atomics EMS Tupelo Facility |
| Suggested Location of Performance: | Shannon, MS |
| Purpose/Project Description: | Develop a low speed hybrid drive propulsion alternative system for DDG-51 class of ships using advanced motor technologies and power electronics. Will save thousands of gallons of fuel per ship per year. |

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| Item Name: | F-15C AESA for Air National Guard |
| Request: | $62,400,000 |
| Suggested Recipient: | Raytheon Company |
| Suggested Location of Performance: | Forest, MS |
| Purpose/Project Description: | Upgrade radars on Air National Guard F-15Cs from a mechanically scanned array to an Active Electronically Scanned Array (AESA) configuration. |

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| Item Name: | F-15C Classified Demo |
| Request: | $12,000,000 |
| Suggested Recipient: | Raytheon Company |
| Suggested Location of Performance: | Forest, MS |
| Purpose/Project Description: | Three-year development effort to demonstrate the APG-63(V)3 Active Electronically Scanned Array (AESA) with a Radar Common Data Link (RCDL). |

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| Item Name: | F-18E/F APG-73 Upgrade |
| Request: | $5,000,000 |
| Suggested Recipient: | Raytheon Company |
| Suggested Location of Performance: | Forest, MS |
| Purpose/Project Description: | Upgrade F/A-18E/F Lot 21-25 aircraft with AESA antenna. Lot 21-25 aircraft are not configured with the power and cooling system to allow for AESA retrofitting. Program upgrades to AESA configuration without major modifications to aircraft. |

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| Item Name: | Field Portable Analytical Equipment |
| Request: | $3,000,000 |
| Suggested Recipient: | Seacoast Science, Inc. |
| Suggested Location of Performance: | Starkville, MS |
| Purpose/Project Description: | These funds will complete the testing and development necessary to raise the Technical Readiness Level of the field portable environmental testing system. |

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| Item Name: | Fuel Storage Bladder - 210K |
| Request: | $30,000,000 |
| Suggested Recipient: | Applied Geo Technologies, Inc. |
| Suggested Location of Performance: | Choctaw, MS |
| Purpose/Project Description: | Manufacturing of 210K fuel storage bladers under production contract from Army Tank Automotive Command. Existing bladders are too small to store the fuel the Army mission requires. |

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| Item Name: | Halvorsen 25k Loader |
| Request: | $12,000,000 |
| Suggested Recipient: | John Bean Technologies |
| Suggested Location of Performance: | Tupelo, MS |
| Purpose/Project Description: | A gap in funding exists during FY 10 that will result in a shut-down of the Halvorsen production. $12 million in bridge funding is needed in FY 10 in order to avoid a potential loss of jobs and higher costs for the Air Force. |

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| Item Name: | HBCU Applied Research Incubator |
| Request: | $9,500,000 |
| Suggested Recipient: | Jackson State University |
| Suggested Location of Performance: | Jackson, MS |
| Purpose/Project Description: | This initiative will provide applied research products required by the Department of the Navy and promote the growth and development of HBCUs. |

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| Item Name: | HERON Maritime SOUTHCOM (UAS) |
| Request: | $15,000,000 |
| Suggested Recipient: | Stark Aerospace, Inc. |
| Suggested Location of Performance: | Starkville/Columbus, MS |
| Purpose/Project Description: | HERON is a mature, multi-role UAV that provides robust Maritime capabilities to perform missions at high or low altitudes relaying real-time recon and target acquisition, detection and ID information back to ground control and mission monitoring. |

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| Item Name: | High Performance Computational Design of Novel Materials |
| Request: | $4,000,000 |
| Suggested Recipient: | Jackson State University |
| Suggested Location of Performance: | Jackson, MS |
| Purpose/Project Description: | This initiative is designed to implement studies of novel materials that represent the potential for applications as sensors, coatings and electronic elements. One focus will be on the design of carbon Nanotube-based chemical sensors. |

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| Item Name: | High Power Computing Capability for Traumatic Brain Injury Research |
| Request: | $6,000,000 |
| Suggested Recipient: | Diversified Technology |
| Suggested Location of Performance: | Ridgeland, MS |
| Purpose/Project Description: | The objective of this program will be to meld applied cognitive applications and neuroscience program to form a combination of biological, behavioral, and computational approaches for evaluating traumatic brain injury. |

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| Item Name: | High Speed Aerial Target Development |
| Request: | $2,000,000 |
| Suggested Recipient: | Applied Geo Technologies |
| Suggested Location of Performance: | Choctaw, MS |
| Purpose/Project Description: | The project performs R&D to modify the launcher for the Shadow Unmanned Aerial Vehicle to make the launcher common to all subsonic aerial targets. R&D supports current operations, and provides cost avoidance and support for Future Combat Systems. |

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| Item Name: | High Temp Polymers for Missile System Applications |
| Request: | $5,500,000 |
| Suggested Recipient: | The University of Southern Mississippi |
| Suggested Location of Performance: | Hattiesburg, MS |
| Purpose/Project Description: | High temperature polymers are required for next generation missile systems applications. Special materials with increased stiffness, decreased weight, and primarily higher thermal loads are needed to replace the high cost of titanium or aluminum products. |

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| Item Name: | High-Performance Polymers for Weapons and Munitions Technology |
| Request: | $4,300,000 |
| Suggested Recipient: | The University of Southern Mississippi |
| Suggested Location of Performance: | Hattiesburg, MS |
| Purpose/Project Description: | Develop light-weight composites, very low-friction surfaces, energetic polymers, reduce corrosion and extend the shelf-life of weapons and munitions used to advance soldier and future combat systems critical to improve performance of the warfighter |

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| Item Name: | Hunter MQ5-B UAS for Army |
| Request: | $8,000,000 |
| Suggested Recipient: | Stark Aerospace, Inc. |
| Suggested Location of Performance: | Starkville/Columbus, MS |
| Purpose/Project Description: | This additional funding for two attrition air vehicles will be for replacements subsequent to losses in theater. Hunter B has over 46,000 combat hours in support of GWOT giving needed Surveillance & Targeting against IED teams and other enemy assets. |

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| Item Name: | Hybrid Plastics and POSS Nanotechnology Engineering Scale-Up Initiative |
| Request: | $6,000,000 |
| Suggested Recipient: | Hybrid Plastics Inc. |
| Suggested Location of Performance: | Hattiesburg, MS |
| Purpose/Project Description: | POSS materials have a broad range of defense and commercial applications. The proposed effort is the final step in an ongoing Title III program aimed at creating an affordable domestic supply of qualified POSS materials for these applications. |

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| Item Name: | Infectious and Airborne Pathogen Reduction |
| Request: | $2,800,000 |
| Suggested Recipient: | Luvata Grenda |
| Suggested Location of Performance: | Grenada, MS |
| Purpose/Project Description: | Proactive measure to preserve health of warfighter while receiving routine & emergency care. Copper has an intrinsic capability to kill disease-causing bacteria that thrive in hospital settings on touch surfaces & fungal growth in air-handling systems. |

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| Item Name: | Integrated Composite Armor for Riverine Craft |
| Request: | $2,000,000 |
| Suggested Recipient: | Seeman Composites, Inc |
| Suggested Location of Performance: | Gulfport, MS |
| Purpose/Project Description: | The funding of this request will lead to development of lighter weight armor solutions for small high speed craft that will allow increased mission capability and crew protection. |

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| Item Name: | Integrated Rugged Checkpoint Container (IRCC) |
| Request: | $2,500,000 |
| Suggested Recipient: | Rapiscan Systems, Inc. |
| Suggested Location of Performance: | Ocean Springs, MS |
| Purpose/Project Description: | The IRCC supplies the war fighter with a ruggedized suite of person, parcel and vehicle borne threat detection systems which fill a capability gap not currently addressed by providing our forces an integrated mobile checkpoint for unimproved terrain. |

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| Item Name: | Jet Blast-Resistant Composite Radomes |
| Request: | $5,100,000 |
| Suggested Recipient: | Northrop Grumman Shipbuilding |
| Suggested Location of Performance: | Pascagoula, MS |
| Purpose/Project Description: | The JSF VTOL configuration will operate from LHA 6. Its exhaust temperatures will reach 1800F. This project will mitigate operational risks associated with JSF exhaust temperatures, ensuring topside shipboard elements, including antennas, are protected. |

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| Item Name: | Land Based Test Capability |
| Request: | $20,000,000 |
| Suggested Recipient: | Northrop Grumman Shipbuilding |
| Suggested Location of Performance: | Pascagoula, MS |
| Purpose/Project Description: | Today's ship are increasingly complex, and feature integrated networks that carry data from a wide range of shipboard systems. Land Based Testing would provide a pre-installation capability to simulate and test these systems, reducing major program risks. |

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| Item Name: | Lightweight Small Caliber Ammunition Production Initiative |
| Request: | $4,500,000 |
| Suggested Recipient: | MAC LLC |
| Suggested Location of Performance: | Bay St Louis, MS |
| Purpose/Project Description: | Lightweight polymer-case ammunition produced by MAC has been demonstrated to reduce the overall weight of the cartridge by over 25%. This project will establish a domestic production capacity needed to meet the .50 caliber needs of the Marine Corps. |

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| Item Name: | Long Term Pain and Infection Management for Combat Casualty Care |
| Request: | $3,000,000 |
| Suggested Recipient: | Ablitech Inc. |
| Suggested Location of Performance: | Hattiesburg, MS |
| Purpose/Project Description: | This project will provide advanced treatment and Long Term Pain and Infection Management of Combat Casualty Care for the warfighter. Funding will build upon current research and development in conjunction with the The University of Southern Mississippi. |

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| Item Name: | MARS (Modeling and Analysis of the Response of Structures) |
| Request: | $2,000,000 |
| Suggested Recipient: | ES3, Inc. (headquarters) |
| Suggested Location of Performance: | Vicksburg, MS |
| Purpose/Project Description: | MARS is providing ERDC with advanced computational methods specifically designed to support DoD's requirements in assessing vulnerabilities of critical US assets (buildings and vehicles) to enemy threats (IED's, mines, and bombs). |

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| Item Name: | Mobile Acoustic Ranging and Tracking (MAcRAT) |
| Request: | $4,100,000 |
| Suggested Recipient: | Radiance Technologies, Inc. |
| Suggested Location of Performance: | Oxford, MS |
| Purpose/Project Description: | This program will develop an on-the-move sniper detection system to protect the in-theater warfighter and critical domestic assets. |

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| Item Name: | Mold in Place (MIP) Coating Development for the US Submarine Fleet |
| Request: | $2,000,000 |
| Suggested Recipient: | Seeman Composites, Inc |
| Suggested Location of Performance: | Gulfport, MS |
| Purpose/Project Description: | To provide additional funding to complete the development of MIP coatings for low cost submarine components built by Seemann Composites for the VA Class and other US Navy Submarines |

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| Item Name: | MQ-8B Fire Scout Army |
| Request: | $14,900,000 |
| Suggested Recipient: | Northrop Grumman Corporation |
| Suggested Location of Performance: | Moss Point, MS |
| Purpose/Project Description: | Fire Scout Army provides persistent over the horizon, tactical reconnaissance, surveillance and target acquisition (RSTA), communications relay, emitter tracking, and logistical support to warfighters. |

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| Item Name: | National Shipbuilding Research Program Advanced Shipbuilding Enterprise / (MARITECH budget |
| Request: | $15,000,000 |
| Suggested Recipient: | VT Halter Marine |
| Suggested Location of Performance: | Pascagoula, MS |
| Purpose/Project Description: | Manage and focus national shipbuilding and repair research and development funding on technologies that will reduce the cost of ships to the U.S. Navy by leveraging best commercial practices and improving the efficiency of the industry. |

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| Item Name: | Navy Special Warfare Performance and Injury Prevention Program for SBT 22 at Stennis Space Center, MS |
| Request: | $2,850,000 |
| Suggested Recipient: | University of Pittsburgh School of Health and Rehabilitation Sciences |
| Suggested Location of Performance: | Pittsburgh, PA |
| Purpose/Project Description: | Growing from an existing project with SEAL Team 2, this would establish the Special Boat Team Human Performance and Injury Prevention Laboratory. The first phase will develop physiologic & musculoskeletal profiles of operators assigned to SBT 22 in MS. |

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| Item Name: | Next Generation Passive Sensor (NGPS) |
| Request: | $4,000,000 |
| Suggested Recipient: | Miltec Research & Technology Corporation |
| Suggested Location of Performance: | Oxford, MS |
| Purpose/Project Description: | This work developes/enhances acoustic sensor systems and capabilities for use in providing increased amounts of strategic information to the warfighter in the battlefield allowing detection, classiification and tracking of objects of interest or threats. |

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| Item Name: | On-Board Hybrid Power Unit (OBHPU) |
| Request: | $1,500,000 |
| Suggested Recipient: | Diversified Technology |
| Suggested Location of Performance: | Ridgeland, MS |
| Purpose/Project Description: | Provide a light weight, safe, robust, cost effective fuel cell power sources, the On-Board Hybrid Power Unit (OBHPU) associated technology of the Onboard Vehicle Power system (OBVP) concentrated on the conduction cooled 10 kW AC power unit. |

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| Item Name: | Orion High Altitude Long Endurance (HALE) UAV (Risk Reduction Effort) |
| Request: | $9,720,000 |
| Suggested Recipient: | Aurora Flight Sciences |
| Suggested Location of Performance: | Columbus, MS |
| Purpose/Project Description: | Orion HALE UAV will meet urgent national requirements for persistent intelligence, surveillance and reconnaissance, beyond line of sight communications, and assist in further development of key technologies needed for long-term operations in near space. |

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| Item Name: | Procurement of Virtual Interactive Combat Environment training systems for the MS National Guard |
| Request: | $4,920,000 |
| Suggested Recipient: | Dynamic Animation Systems, Inc |
| Suggested Location of Performance: | Hattiesburg, MS |
| Purpose/Project Description: | Procurement of Virtual Interactive Combat Environment training systems for the Mississippi National Guard, including all hardware, software, and media of VICE, installation and support. This will fulfill the initial installation of VICE at Camp Shelby. |

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| Item Name: | Production of High Energy Density, "Green" Fuel for Fuel Cells |
| Request: | $3,500,000 |
| Suggested Recipient: | Ardica Technologies |
| Suggested Location of Performance: | Starkville, MS |
| Purpose/Project Description: | There is a need for high energy density, environmentally friendly fuel for soldier power systems. Higher energy density provides electric power for a given mission time while carrying less weight. |

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| Item Name: | Production of MARCbots |
| Request: | $8,000,000 |
| Suggested Recipient: | Applied Geo Technologies, Inc. |
| Suggested Location of Performance: | Choctaw, MS |
| Purpose/Project Description: | The MARCbot is a field system currently operating in high-threat IED aread in which US military personnel are operating. |

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| Item Name: | Propulsion Manufacturing Technology Development (PMTD, NiB Coatings) |
| Request: | $6,880,000 |
| Suggested Recipient: | Rolls-Royce Naval Marine Inc. |
| Suggested Location of Performance: | Pascagoula, MS |
| Purpose/Project Description: | Proving the benefits of NiB coatings in large scale naval propulsion equipment applications provides significant opportunities for improved operations and fuel efficiency and reduce life cycle costs. |

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| Item Name: | SAVIOR (Surveillance Augmentation Vehicle - Insertable on Request) |
| Request: | $2,800,000 |
| Suggested Recipient: | General Atomics |
| Suggested Location of Performance: | Starkville, MS |
| Purpose/Project Description: | This project completes a rapidly deployable ultra-high-resolution sensor/analysis and command & control vehicle yielding human target detection, recognition, and location in a 4 km diameter circle giving unprecedented levels of situational awareness. |

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| Item Name: | Sewage-Derived Biofuels Project |
| Request: | $5,000,000 |
| Suggested Recipient: | General Atomics |
| Suggested Location of Performance: | Starkville, MS |
| Purpose/Project Description: | As a follow-on to Phase I, Phase II will demonstrate the viability of large-scale production of sewage-derived distillate fuels from military and municipal wastewater treatment facilities. |

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| Item Name: | Short Range Ballistic Missile Defense (SRBMD) |
| Request: | $45,000,000 |
| Suggested Recipient: | ATK |
| Suggested Location of Performance: | Luka, MS |
| Purpose/Project Description: | The David's Sling System, jointly developed by the US and Israel, is planned to provide both the Israel and the US with an effective and affordable protection against the proven threat of Long Range Artillery Rockets & Short Range Ballistic Missiles. |

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| Item Name: | Silicon Carbide Electronics Material Producibility Initiative |
| Request: | $9,000,000 |
| Suggested Recipient: | II-VI Wide Band Gap Materials Group |
| Suggested Location of Performance: | Starkville, MS |
| Purpose/Project Description: | Develop domestic 2nd source of SiC materials and devices, required for highly energy efficient, high-frequency and -power systems for critical military platforms and commercial applications. Stimulate private sector employment and manufacturing capacity. |

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| Item Name: | Silicon carbide power electronics for More Electric Aircraft |
| Request: | $10,000,000 |
| Suggested Recipient: | SemiSouth Laboratories, Inc |
| Suggested Location of Performance: | Starkville, MS |
| Purpose/Project Description: | SiC power electronics technology will reduce weight & cost in critical More-Electric-Aircraft sytems. Project will ensure early maturation of SiC technology for timely integration and readiness level demonstrations of critical MEA systems in JSF/F35. |

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| Item Name: | Simulation Based Reliability and Safety (SimBRS) Program |
| Request: | $10,000,000 |
| Suggested Recipient: | Mississippi State University |
| Suggested Location of Performance: | Starkville, MS |
| Purpose/Project Description: | SimBRS Program provides a formal relationship with other universities/corporate entities to engage in synergized research to develop cradle-to-grave modeling & simulation capabilities to optimize reliability in vehicular components/systems |

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| Item Name: | Smart Bomb Targeting System |
| Request: | $3,900,000 |
| Suggested Recipient: | Global Technical Systems (GTS) |
| Suggested Location of Performance: | Oxford, MS |
| Purpose/Project Description: | The development of a Multi-Mode Targeting Radar will provide an enhanced, low-cost, highly reliable, day/night and adverse weather targeting capability, greatly reducing collateral damage and ensuring that critical targets are neutralized. |

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| Item Name: | SOC-R Armor RDT&E for Small Arms Armor Piercing ammo |
| Request: | $6,000,000 |
| Suggested Recipient: | United States Marine, Inc. |
| Suggested Location of Performance: | Gulfport, MS |
| Purpose/Project Description: | The project would involve the design, development, testing and evaluation of an armor solution for the SOC-R to protect against the threat of small arms armor piercing ammunition. |

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| Item Name: | Software Network Application Performance Enhancements |
| Request: | $5,000,000 |
| Suggested Recipient: | Circadence Corporation |
| Suggested Location of Performance: | Tupelo, MS |
| Purpose/Project Description: | WARP WAN optimization and Virtualization Management software will provide the Business Transformation Agency Business Enterprise Information Services (BEIS) an integrated capability to enhance performance and assurance of critical data and applications. |

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|---|---|
| Item Name: | Special Operations Craft--Riverine (SOC-R) |
| Request: | $10,800,000 |
| Suggested Recipient: | United States Marine, Inc. |
| Suggested Location of Performance: | Gulfport, MS |
| Purpose/Project Description: | The project would involve the procurement of six additional SOC-R for the Special Operations Forces. |

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|---|---|
| Item Name: | Unique Identification of Tangible Items |
| Request: | $8,000,000 |
| Suggested Recipient: | Applied Enterprise Solutions, LLC |
| Suggested Location of Performance: | Oxford, MS |
| Purpose/Project Description: | DoD directed that all services uniquely identify tangible items. Compliance is far behind. COMFISCS has been very successful at incorporating IUID into Navy business processes and has raised compliance to DASN (A&LM) level. However, much work remains. |

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|---|---|
| Item Name: | Unmanned Special Operations Craft--Riverine (USOC-R) |
| Request: | $6,000,000 |
| Suggested Recipient: | United States Marine, Inc. |
| Suggested Location of Performance: | Gulfport, MS |
| Purpose/Project Description: | USOC-R will provide SOCOM and Navy Special Warfare Command personnel the ability to remotely assess dangerous coastal and riverine environments, keeping personnel out of harm's way until the mission demands it. Current methods require manned surveillance. |

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| Item Name: | Unmanned Tactical Data Collection Platform - Mobile |
| Request: | $2,000,000 |
| Suggested Recipient: | QinetiQ North America Technology Solutions Group \| Planning Systems, Inc. |
| Suggested Location of Performance: | Long Beach, MS |
| Purpose/Project Description: | This project will provide an accelerated capability for Expeditionary Naval Forces to collect relevant environmental and intelligence, surveillance, and reconnaissance data and allow them to effectively exploit the battlespace for tactical advantage. |

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|---|---|
| Item Name: | VA Class Propulsor Fleet Spare Rotor, #1 of 2 in priority |
| Request: | $7,500,000 |
| Suggested Recipient: | Rolls-Royce Naval Marine Inc. |
| Suggested Location of Performance: | Pascagoula, MS |
| Purpose/Project Description: | Manufacture and deliver a ready-for-issue rotor to the fleet inventory, replacing a casting currently in production which, due to quality issues, has and will in the future require substantial repair. |

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| Item Name: | VePro - Health Usage Monitoring and Vehicle Prognostics |
| Request: | $4,400,000 |
| Suggested Recipient: | HBM-nCode Products |
| Suggested Location of Performance: | Starkville, MS |
| Purpose/Project Description: | Reduce operational failures, costs & fuel consumption, save lives, improve vehicle designs & accelerate evaluation plus identify hybrid power opportunities by understanding usage severity & durability using robust, scalable & cost effective VePro systems |

# FY10 MILCON - Wicker

Friday, May 01, 2009

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|---|---|
| Project Name: | Force Protection Measures -- Relocate Main Entrance at Gulfport Combat Readiness Training Center |
| Request (in Thousands): | 6,500 |
| Service Component: | ANG |
| Project Location: | Gulfport Combat Readiness Training Center |
| State: | MS |
| Project Description | The Gulfport CRTC requires a properly sized, correctly located main entrance with traffic control and vehicle inspection station. The entrance must meet the unified facility code and antiterrorism and force protection measures. |

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|---|---|
| Project Name: | ATFP Division Street Gate And Land Acquisition |
| Request (in Thousands): | 8,300 |
| Service Component: | USAF |
| Project Location: | Keesler AFB |
| State: | MS |
| Project Description | An adequate entry control area is required to protect Air Force personnel and assets at this installation. Providing the required security at the installations perimeter is essential to installation security. |

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|---|---|
| Project Name: | TFI - CNAF BEDDOWN PHASE I |
| Request (in Thousands): | 9,800 |
| Service Component: | ANG |
| Project Location: | Key Field ANG Base |
| State: | MS |
| Project Description | The 186 ARW requires properly sized and adequately configured facilities to support a Component Numbered Air Force Air Operations Center. This is a new mission at this base that was made possible through Total Force Integration initiatives. |

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|---|---|
| Project Name: | Battalion Headquarters Facility |
| Request (in Thousands): | 8,730 |
| Service Component: | USN |
| Project Location: | CBC Gulfport |
| State: | MS |
| Project Description | To provide a modern efficient headquarters facility for Naval Mobile Construction Battalion 11 (NMCB 11) which began moving to CBC Gulfport in March 2007. |

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| Project Name: | Monticello Readiness Center |
| Request (in Thousands): | 14,350 |
| Service Component: | ARNG |
| Project Location: | Moticello |
| State: | MS |
| Project Description | Construct a new Readiness Center to provide adequate infrastructure to support this facility and unit mission that will improve unit readiness. Location is a 16 acre site on state land. |

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|---|---|
| Project Name: | Fuel Systems Maintenance Dock |
| Request (in Thousands): | 9,800 |
| Service Component: | USAF |
| Project Location: | Columbus AFB |
| State: | MS |
| Project Description | A shortage of aircraft maintenance hangar spaces exists at Columbus AFB. Existing facility does not meet Air Force Technical Orders and Fire Safety Codes. |